

IN THE CLAIMS:

1-37. (Canceled)

38. (Currently amended) A method, comprising:

- a) providing:
 - i) a eukaryotic cell; and
 - ii) at least one transfection complex immobilized on a surface, said complex comprising first and second nucleic acids and first and second complexing agents, said first nucleic acid encoding a receptor protein and said second nucleic acid encoding a test protein, wherein said first and second nucleic acid are present in at least one expression vector, and said first complexing agent comprising a ligand for a cell surface receptor that is present on the surface of said eukaryotic cell, and said second complexing agent comprising a DNA binding molecule; and
- b) contacting said eukaryotic cell with said complex under conditions such that the eukaryotic cell is co-transfected with said first and second nucleic acids and said first and second nucleic acids are expressed; and
- c) detecting the presence or absence of binding between said receptor protein expressed by said first nucleic acid and said test protein expressed by said second nucleic acid.

39. (Previously presented) The method of claim 38, wherein said receptor protein is selected from the group consisting of G-protein coupled receptors and receptor kinases.

40-41. (Canceled)

42. (Previously presented) The method of claim 38, wherein said at least one transfection complex immobilized on a surface form an array.

43. (Previously presented) The method of claim 38, wherein said detecting the presence or absence of binding between said receptor protein and said test protein comprises purifying said receptor protein and determining its mass.

44. (Previously presented) The method of Claim 38, wherein the transfection complex further comprises a third complexing agent, said third complexing agent comprising a membrane permeable molecule.

45. (Previously presented) The method of Claim 44, wherein the DNA-binding molecule is a cationic protein.

46. (Previously presented) The method of Claim 44, wherein the membrane permeable molecule is a cationic lipid.

47. (Previously presented) The method of Claim 45, wherein said ligand is covalently linked to the cationic protein.

48. (Previously presented) The method of Claim 45, wherein said ligand is transferrin and the cationic protein is polylysine.

49. (Previously presented) The method of Claim 38, wherein the transfection complex further comprises one or more additional complexing agents selected from the group consisting of targeting molecules, transcription molecules, nucleic acid degradation inhibitors, cell growth and integrity modulators, and mixtures thereof.